STRUCTURE 167

This structure is a reinforced concrete, gated spillway with discharge controlled by a stem operated, vertical lift gate. Operation of the gate is automatically controlled so that the gate operating system opens or closes the gate in accordance with operational criteria. The structure is located on Canal 103 about a mile west of U.S. Highway #1.

PURPOSE

This structure maintains optimum upstream water control stages in Canal 103; it passes the design flood (40% of the Standard Project Flood) without exceeding the upstream flood design stage, and restricts downstream flood stages and channel velocities to non-damaging levels.

OPERATING CRITERIA

This structure is operated under automatic control as follows:

When the headwater elevation rises to 5.9 feet, the gate begins to open;

When the headwater elevation rises or falls to elevation 5.5, the gate becomes stationary;

When the headwater elevation falls to 5.1 feet, the gate begins to close;

FLOOD DISCHARGE CHARACTERISTICS

	Design
Discharge Rate	_330 cfs
Headwater Elevation	
Tailwater Elevation	
Type Discharge	Controlled <u>Submerged</u>

DESCRIPTION OF STRUCTURE

Type reinforced concrete, gated spillway

Weir Crest

Net Length 12.0 feet Elevation -0.5 feet

Service Bridge Elevation 10.0 feet Water Level which will by-pass structure 6.5 feet Gates Number 1 Size 7.0 ft. high by 12.8 ft. wide Type vertical slide gate Bottom elevation of gate, full open 6.5 feet Normal, 9.0 feet Maximum Top elevation of gate, full closed <u>6.5</u> feet Control on-site automatic and remote computer control Lifting Mechanism Normal power source commercial electricity Emergency power source LP gas engine driven generator Type Hoist direct drive motor, gear connected to screw stems Date of Transfer: August 25, 1967 **ACCESS:** from Biscayne Drive via access road on northeast side of C-103 HYDRAULIC AND HYDROLOGIC MEASUREMENTS Water Level Remote digital headwater and tailwater recorders Gate Position Recorder Remote digital recorder on all gates **DEWATERING FACILITIES** StorageWest Palm Beach Type Stop logs Size and number (per bay) **Upstream & Downstream**

19 each, 8" X 8" X 13' -2" long